Title (en)
Method for determining initial burnishing parameters

Title (de)
Verfahren zur Bestimmung von anfänglichen Festwalzparametern

Title (fr)
Procédé pour la détermination de paramètres de brunissage initiaux

Publication
EP 1938926 A1 20080702 (EN)

Application
EP 07123705 A 20071219

Priority
US 61875506 A 20061230

Abstract (en)
A method of determining parameters for a burnishing operation includes: using a rolling burnishing element (11) to burnish at least two segments (14) on a selected surface (12) of a material sample (13), the segments (14) having a common width (W) and overlapping each other by a preselected overlap value (OV); measuring the resulting hardness of the surface (12); and selecting a working overlap value (OV) for a subsequent burnishing operation on a workpiece (WP), based on the measured hardness.

IPC 8 full level
B24B 39/00 (2006.01); **C21D 7/08** (2006.01); **C22F 1/00** (2006.01)

CPC (source: EP US)
B24B 39/00 (2013.01 - EP US); **B24B 39/003** (2013.01 - EP US); **C21D 1/55** (2013.01 - EP US); **C21D 7/08** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US); Y10T 29/47 (2015.01 - EP US); Y10T 29/474 (2015.01 - EP US); Y10T 29/49764 (2015.01 - EP US); Y10T 29/49771 (2015.01 - EP US); Y10T 29/49776 (2015.01 - EP US); Y10T 29/49778 (2015.01 - EP US)

Citation (search report)
- [A] US 2005155203 A1 20050721 - PREVEY PAUL S [US]
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- [A] DE 4309176 A1 19940929 - SIEMENS AG [DE]
- [A] EP 1426139 A1 20040609 - SURFACE TECHNOLOGY HOLDINGS [US]

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FR2983101A1; WO2012066113A1

Designated contracting state (EPC)
DE FR GB

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1938926 A1 20080702; **EP 1938926 B1 20100407**; CN 101209538 A 20080702; CN 101209538 B 20120125; DE 602007005761 D1 20100520; JP 2008162011 A 20080717; JP 5268351 B2 20130821; SG 144088 A1 20080729; SG 162833 A1 20100729; US 2008160891 A1 20080703; US 8079120 B2 20111220

DOCDB simple family (application)
EP 07123705 A 20071219; CN 200710307262 A 20071228; DE 602007005761 T 20071219; JP 2007338683 A 20071228; SG 2007187123 A 20071214; SG 2010046233 A 20071214; US 61875506 A 20061230